AAGTCAACAA AGATGGAGCA CTGGCGTTGC TCCCAAAACA GCAGGAGAAC

GGCGACCGGC CGGAGAAGGC TGGCGCCCCT GAAACCAGCA AGGAATACG

CCCAGGTGTC CCGGGTGATG GATAACCACA TCCTGGTGTT AGTGCAGGAT

CCGCGAGCTC GAAACGTGGC TCCGTTTGAA GAACCAACCA AGGAGACCCC

GCCATCCCGG CCGCAGAATC CAGCTGCGAA AGACCTGGCC G/AGCTTCACCA

CGGCCCCGGG CCACTGCAGA CACCCGCTGG GTGGGCTGGA TTACCTCGAT

CCCGCAGGCT TTATGCACTC CTTTCAGTGA GAGCTTGGTT CATGGGATGA

TGGGTTACAA GGTGGGGTTT TTTTCAGGTC GCACTACGTG AAATGCACTC

TACCAGAGAA AGCTCGAAAA TGGGGTTAGA ATGACACTAC *CCAGACTCAC*

AGTTCACTCC TCTTCATGCT CCATTTTCAA CCACTTGCCTCTT

G/A=G or A at polymorphic site

Fig.1

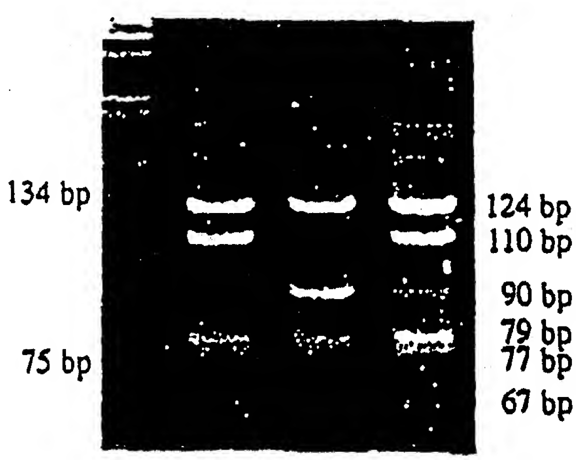

Fig.2

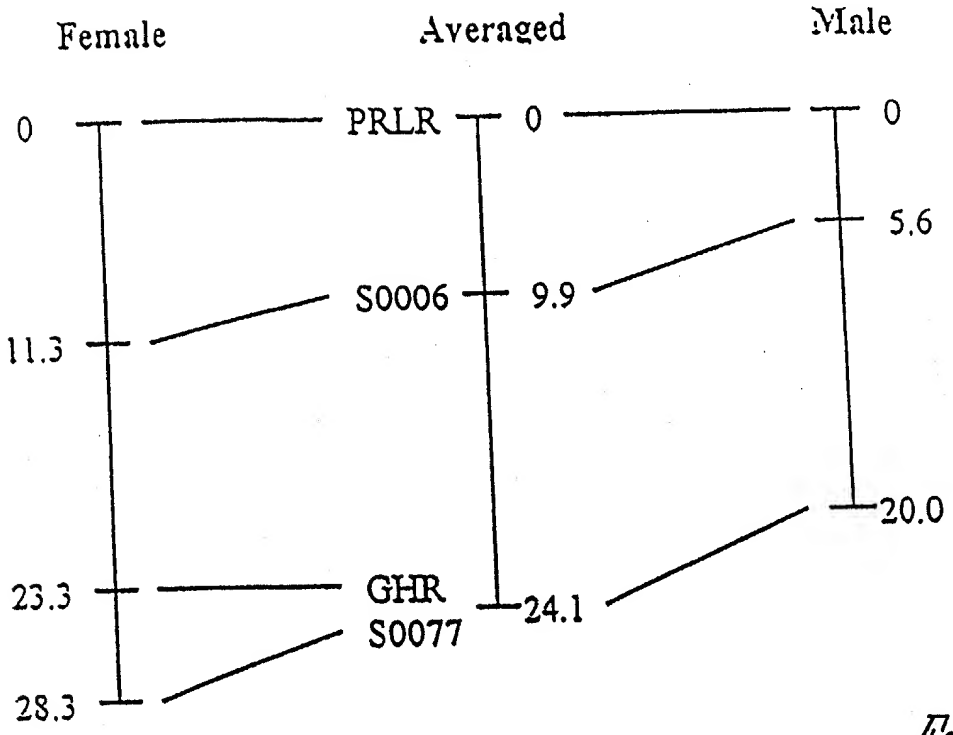
Female
Averaged
Male
0
PRLR
0
0
5.6
S0006
9.9
11.3
20.0
23.3
GHR
S0077
24.1
28.3

Fig. 3

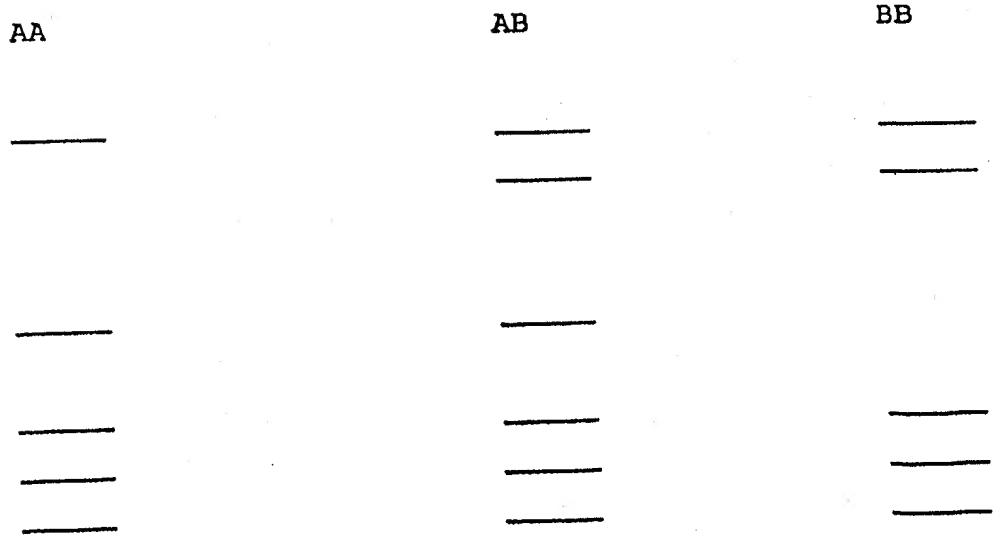
AA
AB
BB

Fig. 4

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1   GATTATTGTC TGGGCAGTGG ---------- TCTTCTCTGT CTATCNACCC CCCTCCCATT  60
61  CATGGCTCTC AGGGTATAAT GGCCAAAAAA AAGACAAGAC AAAAATGATG GAAACCTACA 120
121 GATAATTYAA GCACCTCATT TTGCCATTAG CTGCATTAGC CATAAAAAAA A---------- 180
181 -----AAAAA AAAACCTTTT CTCAGTGCTA GAAAAAAACA GAATAGACTC ATTTGAAACT 240
241 GATCTTCTCT CTACCAAAGG GAGTAGCGCA GTTGTGAAAT AGTAAACGTC TGACAAGAAC 300
301 AGCAAATAAT CCCACTAGTA ATTTCAGAAT CCGCCTCCTC AATTAGCCAG AATTCACTGT 360
361 GATGCTGGCC TCTATAATTA TTATTTGTCT TCACCACTGA TTAGTTTCAC ATCATGAAAA 420
421 TTGCATGTCA TTTAGTTTCA CRTAGCCTCA GAACCAACCC TAATTCCTAC CTGCCATATC 480
481 CCTGTAGCAG CTATTCGAAG ATCACAAGGT GGGAACATGT GTYATTTATC TTTTCTCTTA 540
541 CATTATTTTA GAGCATGGTG GCCTGCATCC ---------- GGGCCAAAAA TAAAAGGATT 600
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Fig. 5

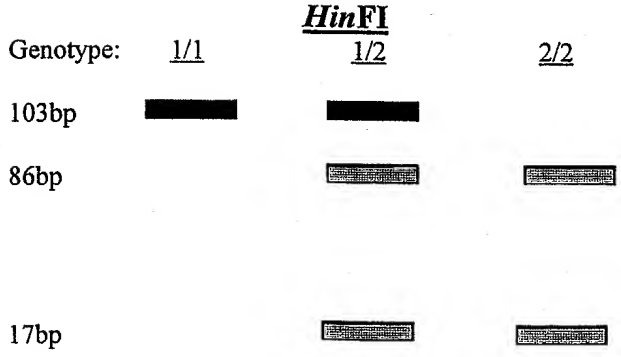

Fig. 6

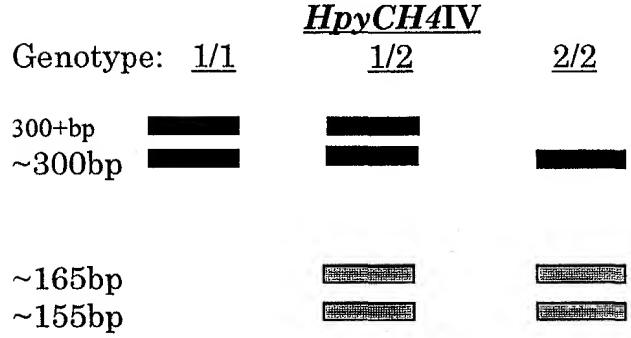
HpyCH4IV
Genotype: 1/1 1/2 2/2
300+bp
~300bp
~165bp
~155bp

Fig. 7

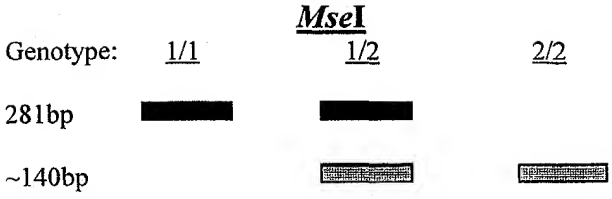
MseI
Genotype: 1/1 1/2 2/2
281bp
~140bp

Fig. 8

Sequence 5′ to 3′ for porcine PRLR Sequence

GTACACACAC ACACACACAC ACACACACAC ACACACCACC GTTAAGCTNT CTTTCTGAAT CATGCCNACC
CGAGGGCCAC CCATAGAGGA GTGTGGTGGA GGGTGCCTTG GCACTTCTGA GCCCTGCATC CCTACACCCA
CTAGCCTCAA GATGTCATC CCTGCCCTGG CCCCCACCCA TCTGCTTCTG TCACCAGCAG AATGGTCCAG
TCATTGAGCG GACCTTCATA TTGACTCCAG TGGCTTCTGG CTTTTTCTAG **GACAGTCACC TCCGGGAAAA**
CCTGAGATCT TCAAATGTCG TTCTCCCGAA AAGGAAACAT TCGCCTGCTG GTGGAAGCCG GGGGCGGATG
GAGGACTTCC TACCAACTAG ACGCTGACTT ACCACAAGGA AGGGTAAGCA TTCGCGTGTC TCCCAACAAA
CCACACGAGT GTTCTCTCTC TGTGGGCCAG AGGAACACTG CTTCTGGGTT AGAACTGCCT CGCTTTGGAG
TTCCCGTCAT GGCTCAGTGG TAACGAATC

Human exon 4

gacagttacctcctgg aaaacctgag atctttaaat gtcgttctcc caataaggaa acattcacct
gctggtggag gcctgggaca gatggaggac ttcctaccaa ttattcactg acttaccaca
gggaagg

Alignment

	Exon 4																
Hsap	**g**	**a**	c	a	g	**t**	**t**	**a**	c	c	t	c	c	t	g	g	a
			G		Q		L		P		P		G		K		P
pig	?	a	c	a	g	t	**c**	a	c	c	t	c	c	**g**	**g**	g	a
							S				P						
Hsap	a	a	a	c	c	t	g	a	g	a	t	c	t	t	t	a	a	a	t
			E		T		G		D		I		L		K		N
pig	a	a	a	c	c	t	g	a	g	a	t	c	t	t	**c**	a	a	a	t
															F				
Hsap	g	t	c	g	t	t	c	t	c	c	c	a	a	t	a	a	g	g	a	a	a	c	a	t	t	c	a	c	c	t	g	c	t	g	g	t
			C		R		S		P		N		K		E		T		F		T												
pig	g	t	c	g	t	t	c	t	c	c	c	**g**	a	a	a	g	g	a	a	a	c	a	t	t	c	**g**	c	c	t	g	c	t	g	g	t
													E														**A**								
Hsap	g	g	a	g	g	c	c	t	g	g	g	a	c	a	g	a	t	g	g	a	g	g	a	c	t	t	c	c	t	a	c	c	a	a	t	t
					R		P		G		T		D		G		G		L		P		T		N										
pig	g	g	a	**a**	g	c	c	**g**	g	g	g	**g**	c	**g**	g	a	t	g	g	a	g	g	a	c	t	t	c	c	t	a	c	c	a	**a**	**c**	t
				K		P							**A**																					**N**		
Hsap	a	t	t	c	a	c	t	g	a	c	t	t	a	c	c	a	c	a	g	g	g	a	a	g	g												
			Y		S		L		T		Y		H		R		E		G																
pig	?	**g**	a	c	**g**	c	t	g	a	c	t	t	a	c	c	a	c	a	**a**	g	g	a	a	g	g												
		**		**T**															**K**																

Fig. 9